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Message Text

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ACTION EUR-12

INFO OCT-01 ARA-14 ISO-00 ACDA-12 CIAE-00 INR-10 IO-14
L-03 NSAE-00 NSC-05 EB-08 NRC-07 OES-07 SOE-02
DODE-00 SS-15 SP-02 CEQ-01 PM-05 /118 W
----------091757 131958Z /43
P R 131716Z MAR 78
FM AMEMBASSY BONN
TO SECSTATE WASHDC PRIORITY 6712
INFO AMEMBASSY BRASILIA PRIORITY
USDOE WASHDC PRIORITY
USDOE GERMANTOWN PRIORITY
AMEMBASSY PARIS
AMEMBASSY BERN
AMEMBASSY BRUSSELS
AMEMBASSY VIENNA
AMEMBASSY LONDON
AMEMBASSY THE HAGUE
AMCONSUL RIO DE JANEIRO
AMCONSUL SAO PAULO

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E.O. 11652: N/A
TAGS: TECH, PARM, MNUC, ENRG, GW, BR
SUBJECT: GERMAN/BRAZILIAN NUCLEAR COOPERATION

REF: (A) BONN 3873, (B) BONN 4450

1. TEXT OF KFA JUELICH-NUCLEBRAS STATEMENT OF COOPERATION WHICH WAS FORMALLY SIGNED AT JUELICH ON MARCH 8, 1978, (PARA 3, REF A) IS GIVEN IN PARA 2 BELOW. INTERESTING TO NOTE THAT LAST WEEK'S FRG-GOB NUCLEAR DISCUSSIONS WERE ALL CARRIED OUT IN ENGLISH AND ORIGINAL TEXT OF STATEMENT OF INTENT IS IN ENGLISH LANGUAGE.

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2. QUOTE:

STATEMENT OF INTENT BETWEEN KFA AND NUCLEBRAS ON COOPERATION IN THE FIELD OF HIGH-TEMPERATURE REACTORS AND GAS-COOLED FAST BREEDER REACTORS AND OF THE THORIUM CYCLE IN HIGH-TEMPERATURE REACTORS AND LIGHT-WATER REACTORS AS WELL AS IN GAS-COOLED FAST

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BREEDER REACTORS

WHEREAS, THE GOVERNMENT OF THE FEDERATIVE REPUBLIC OF BRAZIL AND THE GOVERNMENT OF THE FEDERAL REPUBLIC OF GERMANY ENTERED INTO A BASIC AGREEMENT ON JUNE 9, 1969 ON COOPERATION IN SCIENTIFIC RESEARCH AND TECHNOLOGICAL DEVELOPMENT, INCLUDING COOPERATION IN NUCLEAR RESEARCH AND DEVELOPMENT, WHICH SHALL BECOME THE SUBJECT OF SPECIAL AGREEMENTS;

WHEREAS SUCH A SPECIAL AGREEMENT HAS BEEN IN FORCE SINCE APRIL 23, 1971 BETWEEN KERNFORSCHUNGSANLAGE JUELICH GMBH (KFA) AND COMIS SAO NACIONAL DE ENERGIA NUCLEAR (CNEN) AND WAS EXTENDED BY AN AMENDMENT OF OCTOBER 3, 1973 TO THE BRAZILIAN COMPANY FOR NUCLEAR TECHNOLOGY (CBTN), OF WHICH NUCLEBRAS IS THE LEGAL SUCCESSOR;

WHEREAS THE AFOREMENTIONED AMENDED SPECIAL AGREEMENT SPECIFIES, AMONG THE VARIOUS AREAS OF COOPERATION IN NUCLEAR RESEARCH AND NUCLEAR TECHNOLOGICAL DEVELOPMENT: 1) PRODUCTION OF NUCLEAR ENERGY; 2) RAW MATERIALS USED IN NUCLEAR TECHNOLOGY, AND 3) NUCLEAR FUELS AND FUEL CYCLES;

NOW THEREFORE EMPRESAS NUCLEARES BRASILEIRAS S.A. - UNCLASSIFIED

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NUCLEBRAS AND KERNFORSCHUNGSANLAGE JUELICH GMBH (KFA), IN AGREEMENT WITH THEIR GOVERNMENTS, ARE PLANNING TO INTENSIFY THEIR COLLABORATION IN THE FIELD OF HIGH-TEMPERATURE REACTORS AND LIGHT-WATER REACTORS AND TO HENCEFORTH INCLUDE IN THIS COLLABORATION THE GAS-COOLED FAST BREEDER REACTOR AS WELL.

THE INTENDED COOPERATION BETWEEN KFA AND NUCLEBRAS IN THE FIELD OF HIGH-TEMPERATURE REACTOR DEVELOPMENT WILL COVER THE FOLLOWING SUBJECTS:

- PHYSICS OF THE HTR PEBBLE-BED CORE, IN PARTICULAR WITH REGARD TO THE URANIUM-THORIUM FUEL CYCLE AND THE THORIUM BREEDER CONCEPT;

- THERMODYNAMIC DESIGN OF THE CORE AND THE OTHER PRIMARY CIRCUIT COMPONENTS FOR BOTH POWER PRODUCTION AND UTILIZATION OF HTR PROCESSHEAT;

- DESIGN OF THE NUCLEAR HEAT PRODUCTION SYSTEM;

- STRATEGIC STUDIES CONCERNING THE URANIUM-THORIUM

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CYCLE, COMPRISING THE ALTERNATIVES OF REPROCESSING
AND LONGTIME STORAGE UNDER THE ASPECTS OF ECONOMIC
EFFICIENCY, SAFETY AND ENVIRONMENTAL IMPACT;

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- ANALYSIS OF THORIUM AVAILABILITY;

- EVALUATION OF STRATEGIES FROM THE POINT OF VIEW OF
FUEL ELEMENT FABRICATION AND REPROCESSING;

- FUNDAMENTAL INVESTIGATIONS INTO THE FABRICATION OF
URANIUM-THORIUM FUEL PARTICLES FOR HTR FUEL ELEMENTS
AND PROBLEMS RELATING TO THE REPROCESSING AND
REFABRICATION OF SUCH FUEL ELEMENTS.

FURTHERMORE, KFA AND NUCLEBRAS ARE PLANNING TO EXTEND

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THEIR COOPERATION ACTIVITIES IN THE FIELD OF FUEL ELEMENT DEVELOPMENT AND IRRADIATION FOR LIGHT-WATER REACTORS, WHICH HAVE BEEN PERFORMED SINCE 1975 WITH KWU AS ADDITIONAL PARTNER AND FOCUSSED ON THE URANIUM-PLUTONIUM CYCLE, TO ALSO INCLUDE THE URANIUM-THORIUM FUEL CYCLE, AND TO CARRY OUT SUPPLEMENTARY STRATEGIC CALCULATIONS FOR LWR'S WITH U-TH FUEL.

KFA AND NUCLEBRAS INTEND TO ALSO COOPERATE HENCEFORTH IN THE FIELD OF GAS-COOLED FAST BREEDER REACTOR DEVELOPMENT. COOPERATION IS CHIEFLY INTENDED TO INVOLVE STUDIES OF THE FUEL CYCLE AS WELL AS FUNDAMENTAL WORK RELATING TO THE DEVELOPMENT OF FUEL AND BREEDER ASSEMBLIES, COVERING THE URANIUM-THORIUM CYCLE IN ADDITION TO THE URANIUM-PLUTONIUM CYCLE.

THE PARTNERS ARE AWARE THAT THE ABOVE MENTIONED PROGRAMMES HAVE LONG-TERM OBJECTIVES AND ARE INTENDED TO BE AN ADDITION TO THE CURRENT INDUSTRIAL COOPERATION AGREEMENT BETWEEN THE BRAZIL AND THE FEDERAL REPUBLIC OF GERMANY.

THE PARTNERS AGREE THAT EVERY EFFORT SHOULD BE DONE TO MAKE THE BEST POSSIBLE USE OF COMPETENT INSTITUTIONS IN THEIR RESPECTIVE COUNTRIES FOR THE IMPLEMENTATION OF THE AFOREMENTIONED PROGRAMMES.

JUELICH, MARCH 8TH, 1978

EMPRESAS NUCLEARES BRASILEIRAS S.A.
NUCLEBRAS

KERNFORSCHUNGSANLAGE JUELICH
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GESELLSCHAFT MIT BESCHRANKTER HAFTUNG
UNQUOTE.

3. TEXTS OF OTHER TECHNICAL AGREEMENTS SIGNED LAST WEEK WILL FOLLOW SEPTEL.
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